SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Ruben, Steven M
- (ii) TITLE OF INVENTION: Apoptosis Inducing Molecule I
- (iii) NUMBER OF SEQUENCES: 10
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Human Genome Sciences, Inc.
 - (B) STREET: 9410 Key West Avenue
 - (C) CITY: Rockville
 - (D) STATE: MD
 - (E) COUNTRY: US
 - (F) ZIP: 20850
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE: 13-MAR-1997
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Kimball, Paul, C.
 - (B) REGISTRATION NUMBER: 34,610
 - (C) REFERENCE/DOCKET NUMBER: PF261
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (301) 309-8504
 - (B) TELEFAX: (301) 309-8512
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1643 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 52..894
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGCACGAGCG GCTGCCTGGC TGACTTACAG CAGTCAGACT CTGACAGGTT C ATG GCT

Met Ala

57

1

1

	GTC Val							1	05
 	 TTC Phe	 _	 					1	53
	TTT Phe							2	01
	ATT Ile							2	49
	GAA Glu 70							2	97
	CAG Gln							3	45
	ACA Thr							3	93
	GGT Gly							4	41
	AAC Asn							4	89
	AAA Lys 150							5	37
	AAC Asn							5	85
	TAC Tyr							6	33
	GAA Glu							6	81
	ACA Thr							7	29
	TGT Cys 230							7	77

	_		Lys Glu Asn			825
			GAC ATG GAC Asp Met Asp			873
	C TTT TTA GT a Phe Leu Va 28	al Gly	rgacct ggaa <i>l</i>	AGAAAA AGCAA	TAACC	924
TCAAAGTGAC	TATTCAGTTT	TCAGGATGAT	ACACTATGAA	GATGTTTCAA	AAAATCTGAC	984
CAAAACAAAC	AAACAGAAAA	CAGAAAACAA	AAAAACCTCT	ATGCAATCTG	AGTAGAGCAG	1044
CCACAACCAA	AAAATTCTAC	AACACACACT	GTTCTGAAAG	TGACTCACTT	ATCCCAAGAA	1104
AATGAAATTG	CTGAAAGATC	TTTCAGGACT	CTACCTCATA	TCAGTTTGCT	AGCAGAAATC	1164
TAGAAGACTG	TCAGCTTCCA	AACATTAATG	CAATGGTTAA	CATCTTCTGT	CTTTATAATC	1224
TACTCCTTGT	AAAGACTGTA	GAAGAAAGCG	CAACAATCCA	TCTCTCAAGT	AGTGTATCAC	1284
AGTAGTAGCC	TCCAGGTTTC	CTTAAGGGAC	AACATCCTTA	AGTCAAAAGA	GAGAAGAGGC	1344
ACCACTAAAA	GATCGCAGTT	TGCCTGGTGC	AGTGGCTCAC	ACCTGTAATC	CCAACATTTT	1404
GGGAACCCAA	GGTGGGTAGA	TCACGAGATC	AAGAGATCAA	GACCATAGTG	ACCAACATAG	1464
TGAAACCCCA	TCTCTACTGA	AAGTGCAAAA	ATTAGCTGGG	TGTGTTGGCA	CATGCCTGTA	1524
GTCCCAGCTA	CTTGAGAGGC	TGAGGCAGGA	GAATCGTTTG	AACCCGGGAG	GCAGAGGTTG	1584
CAGTGTGGTG	AGATCATGCC	ACTACACTCC	AGCCTGGCGA	CAGAGCGAGA	CTTGGTTTC	1643

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 281 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Ala Met Met Glu Val Gln Gly Gly Pro Ser Leu Gly Gln Thr Cys

1 10 15

Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys Val Ala 20 25 30

Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met Gln Asp Lys 35 40 45

Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu Asp Asp Ser Tyr 50 60

- Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser Pro Cys Trp Gln Val 65 70 75 80
- Lys Trp Gln Leu Arg Gln Leu Val Arg Lys Met Ile Leu Arg Thr Ser 85 90 95
- Glu Glu Thr Ile Ser Thr Val Gln Glu Lys Gln Gln Asn Ile Ser Pro 100 105 110
- Leu Val Arg Glu Arg Gly Pro Gln Arg Val Ala Ala His Ile Thr Gly
 115 120 125
- Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu 130 135 140
- Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly 145 150 155 160
- His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile 165 170 175
- His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe 180 185 190
- Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln 195 200 205
- Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys 210 215 220
- Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr 225 230 235 240
- Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile 245 250 255
- Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala 260 265 270
- Ser Phe Phe Gly Ala Phe Leu Val Gly 275 280
- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Val Asp Ser Ser Ala Ser Ser Pro Trp Ala Pro Pro Gly Thr Val Leu
1 5 10 15

- Pro Cys Pro Thr Ser Val Pro Arg Arg Pro Gly Gln Arg Arg Pro Pro 20 25 30
- Leu Pro Pro Leu Pro Leu Pro Pro Leu Lys Lys Arg Gly Asn His Ser
- Thr Gly Leu Cys Leu Leu Val Met Phe Phe Met Val Leu Val Ala Leu 65 70 75 80
- Val Gly Leu Gly Leu Gly Met Phe Gln Leu Phe His Leu Gln Lys Glu 85 90 95
- Leu Ala Glu Leu Arg Glu Ser Thr Ser Gln Met His Thr Ala Ser Ser 100 105 110
- Leu Glu Lys Gln Ile Gly His Pro Ser Pro Pro Pro Glu Lys Lys Glu 115 120 125
- Leu Arg Lys Val Ala His Leu Thr Gly Lys Ser Asn Ser Arg Ser Met 130 135 140
- Pro Leu Glu Trp Glu Asp Thr Tyr Gly Ile Val Leu Leu Ser Gly Val 145 150 155 160
- Lys Tyr Lys Lys Gly Gly Leu Val Ile Asn Glu Thr Gly Leu Tyr Phe 165 170 175
- Val Tyr Ser Lys Val Tyr Phe Arg Gly Gln Ser Cys Asn Asn Leu Pro 180 185 190
- Leu Ser His Lys Val Tyr Met Arg Asn Ser Lys Tyr Pro Gln Asp Leu 195 200 205
- Val Met Met Glu Gly Lys Met Met Ser Tyr Cys Thr Thr Gly Gln Met 210 220
- Trp Ala Arg Ser Ser Tyr Leu Gly Ala Val Phe Asn Leu Thr Ser Ala 225 230 235 240
- Asp His Leu Tyr Val Asn Val Ser Glu Leu Ser Leu Val Asn Phe Glu 245 250 250
- Glu Ser Gln Thr Phe Phe Gly Leu Tyr Lys Leu 260 265

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
- Met Gln Gln Pro Met Asn Tyr Pro Cys Pro Gln Ile Phe Trp Val Asp 1 5 10 15
- Ser Ser Ala Thr Ser Ser Trp Ala Pro Pro Gly Ser Val Phe Pro Cys 20 25 30
- Pro Ser Cys Gly Pro Arg Gly Pro Asp Gln Arg Arg Pro Pro Pro Pro 35
- Pro Pro Pro Val Ser Pro Leu Pro Pro Pro Ser Gln Pro Leu Pro Leu 50 55 60
- Pro Pro Leu Thr Pro Leu Lys Lys Lys Asp His Asn Thr Asn Leu Trp 65 70 75 80
- Leu Pro Val Val Phe Phe Met Val Leu Val Ala Leu Val Gly Met Gly 85 90 95
- Leu Gly Met Tyr Gln Leu Phe His Leu Gln Lys Glu Leu Ala Glu Leu 100 105 110
- Arg Glu Phe Thr Asn Gln Ser Leu Lys Val Ser Ser Phe Glu Lys Gln 115 120 125
- Ile Ala Asn Pro Ser Thr Pro Ser Glu Lys Lys Glu Pro Arg Ser Val 130 135 140
- Ala His Leu Thr Gly Asn Pro His Ser Arg Ser Ile Pro Leu Glu Trp 145 150 155 160
- Glu Asp Thr Tyr Gly Thr Ala Leu Ile Ser Gly Val Lys Tyr Lys Lys 165 170 175
- Gly Gly Leu Val Ile His Glu Thr Gly Leu Tyr Phe Val Tyr Ser Lys 180 185 190
- Val Tyr Phe Arg Gly Gln Ser Cys Asn Asn Gln Pro Leu Asn His Lys 195 200 205
- Val Tyr Met Arg Asn Ser Lys Tyr Pro Glu Asp Leu Val Leu Met Glu 210 215 220
- Glu Lys Arg Leu Asn Tyr Cys Thr Thr Gly Gln Ile Trp Ala His Ser 225 230 235 240
- Ser Tyr Leu Gly Ala Val Phe Asn Leu Thr Ser Ala Asp His Leu Tyr 245 250 255
- Val Asn Ile Ser Gln Leu Ser Leu Ile Asn Phe Glu Glu Ser Lys Thr 260 265 270
- Phe Phe Gly Leu Tyr Lys Leu 275
- (2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 233 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
- Met Ser Thr Glu Ser Met Ile Arg Asp Val Glu Leu Ala Glu Glu Ala 1 5 10 15
- Leu Pro Lys Lys Thr Gly Gly Pro Gln Gly Ser Arg Arg Cys Leu Phe 20 25 30
- Leu Ser Leu Phe Ser Phe Leu Ile Val Ala Gly Ala Thr Thr Leu Phe 35
- Cys Leu Leu His Phe Gly Val Ile Gly Pro Gln Arg Glu Glu Ser Pro 50 60
- Arg Asp Leu Ser Leu Ile Ser Pro Leu Ala Gln Ala Val Arg Ser Ser 65 70 75 80
- Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro 85 90 95
- Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg Ala Asn Ala Leu 100 105 110
- Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu Val Val Pro Ser 115 120 125
- Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly 130 135 140
- Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala 145 150 155 160
- Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro 165 170 175
- Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu 180 185 190
- Pro Ile Tyr Leu Gly Cys Val Phe Gln Leu Glu Lys Gly Asp Arg Leu 195 200 205
- Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly 210 215
- Gln Val Tyr Phe Gly Ile Ile Ala Leu 225 230
- (2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 205 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
- Met Thr Pro Pro Glu Arg Leu Phe Leu Pro Arg Val Cys Gly Thr Thr 10 5
- Leu His Leu Leu Leu Cly Leu Leu Val Leu Leu Pro Gly Ala 20 25 30
- Gln Gly Leu Pro Gly Val Gly Leu Thr Pro Ser Ala Ala Gln Thr Ala 35
- Arg Gln His Pro Lys Met His Leu Ala His Ser Thr Leu Lys Pro Ala 50 55 60
- Ala His Leu Ilè Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg
 65 70 75 80
- Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn 85 90 95
- Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr Phe Val Tyr Ser Gln 100 105 110
- Val Val Phe Ser Cys Lys Ala Tyr Ser Pro Lys Ala Pro Ser Ser Pro 115 120 125
- Leu Tyr Leu Ala His Glu Val Cys Leu Phe Ser Ser Gln Tyr Pro Phe 130
- His Val Pro Leu Leu Ser Ser Gln Lys Met Val Tyr Pro Gly Leu Gln 145 150 155 160
- Glu Pro Trp Leu His Ser Met Tyr His Gly Ala Ala Phe Gln Leu Thr 165 170 175
- Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly Ile Pro His Leu Val 180 185 190
- Leu Ser Pro Ser Thr Val Phe Phe Gly Ala Phe Ala Leu 195 200 205
- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(XI) SEQUENCE DESCRIPTION: SEQ ID NO: /:	
GCGGCGGGAT CCATGGCTAT GATGGAGGTC CAG	33
(2) INFORMATION FOR SEQ ID NO:8:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
CGCGCGTCTA GAGCTTAGGC AACTAAAAAG GCC	33
(2) INFORMATION FOR SEQ ID NO:9:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 34 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CCGCGCGGAT CCATCATGGC TATGATGGAG GTCC	34
(2) INFORMATION FOR SEQ ID NO:10:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 33 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
CGCGCGTCTA GAGCTTAGCC AACTAAAAAG GCC	33

(ii) MOLECULE TYPE: DNA (genomic)